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<b>RDT&amp;E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)</b>								DATE <b>February 2002</b>		
<b>BUDGET ACTIVITY</b> <b>05 - Engineering and Manufacturing Development</b>				<b>PE NUMBER AND TITLE</b> <b>0604442F Space Based Infrared Systems (SBIRS)</b>				<b>PROJECT</b> <b>4598</b>		
				<b>Low</b>						
COST (\$ in Thousands)		FY 2001 Actual	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	Cost to Complete	Total Cost
4598	SBIRS Low Element EMD	233,546	0	0	0	0	0	0	0	488,235
Quantity of RDT&E Articles		0	0	0	0	0	0	0	0	0
<p>Note: In FY2002, SBIRS Low efforts were transferred from PE 0604442F, Project 4598, Space Based Infrared Systems (SBIRS) Low to the Ballistic Missile Defense Organization (BMDO) (now the Missile Defense Agency), PE0603884C.</p> <p>(U) <b><u>A. Mission Description</u></b>            (U) The Space-Based Infrared System's (SBIRS) primary mission is to provide initial warning of a ballistic missile attack on the US, its deployed forces or its allies. SBIRS will incorporate new technologies to enhance detection; improve reporting of ICBM, SLBM and tactical ballistic missiles; and provide critical mid-course tracking and discrimination data for national and theater missile defense. This system will provide increased performance in order to meet requirements in US Space Command's Capstone Requirements Document and Air Force Space Command's Operational Requirements Document. SBIRS will consist of satellites in Geosynchronous Earth Orbits (GEO), Highly Elliptical Orbits (HEO) and Low Earth Orbits (LEO) and an integrated centralized ground station serving all SBIRS space elements and Defense Support Program (DSP) satellites. This PE funds the SBIRS Low Concept and Technology Development (C&amp;TD) activities and leads to System Development and Demonstration (SD&amp;D). SBIRS Low is the LEO component of SBIRS.</p> <p>(U) <b><u>FY 2001 (\$ in Thousands)</u></b></p> <p>(U) \$172,000 C&amp;TD Contracts (38 month FFP competitive contracts between two contractors to design a system capable of meeting the SBIRS Low requirements described in the SBIRS Operational Requirements Document).</p> <p>(U) \$23,751 Provided C&amp;TD Support (Includes studies, integration into SBIRS Increment System-of-Systems and modeling and simulation)</p> <p>(U) \$13,240 Accomplished other risk reduction activities (Includes cryocoolers, batteries, algorithms, rad hard parts, phenomenology, optical filters, MSX data reduction, contamination control, focal plane arrays (visible and long-wave), and survivability)</p> <p>(U) \$24,555 Support Program Office activities</p> <p>(U) \$233,546 Total</p>										
Project 4598				Page 1 of 5 Pages				Exhibit R-2 (PE 0604442F)		

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<p>(U) <b><u>A. Mission Description Continued</u></b></p> <p>(U) <b><u>FY 2002 (\$ in Thousands)</u></b></p> <p>(U) \$0 No Activity - The Program has been transferred to BMDO, now Missile Defense Agency ( MDA), in FY02.</p> <p>(U) \$0 Total</p> <p>(U) <b><u>FY 2003 (\$ in Thousands)</u></b></p> <p>(U) \$0 No Activity - The Program has been transferred to BMDO (now MDA) in FY02.</p> <p>(U) \$0 Total</p> <p>(U) <b><u>B. Budget Activity Justification</u></b></p> <p>(U) This Program Element is in Budget Activity 5, EMD because it funds Concept and Technology Development efforts for the Low Earth Orbit (LEO) portion of the SBIRS program.</p> <p>(U) <b><u>C. Program Change Summary (\$ in Thousands)</u></b></p> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:50%;"></th> <th style="text-align: right;"><u>FY 2001</u></th> <th style="text-align: right;"><u>FY 2002</u></th> <th style="text-align: right;"><u>FY 2003</u></th> <th style="text-align: right;"><u>Total Cost</u></th> </tr> </thead> <tbody> <tr> <td>(U) Previous President's Budget</td> <td style="text-align: right;">238,810</td> <td style="text-align: right;">0</td> <td style="text-align: right;">0</td> <td style="text-align: right;">493,499</td> </tr> <tr> <td>(U) Appropriated Value</td> <td style="text-align: right;">241,021</td> <td style="text-align: right;">0</td> <td></td> <td></td> </tr> <tr> <td>(U) Adjustments to Appropriated Value</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td style="padding-left: 20px;">a. Congressional/General Reductions</td> <td style="text-align: right;">-1,687</td> <td></td> <td></td> <td></td> </tr> <tr> <td style="padding-left: 20px;">b. Small Business Innovative Research</td> <td style="text-align: right;">-5,265</td> <td></td> <td></td> <td></td> </tr> <tr> <td style="padding-left: 20px;">c. Omnibus or Other Above Threshold Reprogram</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td style="padding-left: 20px;">d. Below Threshold Reprogram</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td style="padding-left: 20px;">e. Rescissions</td> <td style="text-align: right;">-523</td> <td></td> <td></td> <td></td> </tr> <tr> <td>(U) Adjustments to Budget Years Since FY 2002 PBR</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>(U) Current Budget Submit/FY 2003 PBR</td> <td style="text-align: right;">233,546</td> <td style="text-align: right;">0</td> <td style="text-align: right;">0</td> <td style="text-align: right;">488,235</td> </tr> </tbody> </table> <p>(U) <b><u>Significant Program Changes:</u></b></p> <p>(FY02) SBIRS Low RDT&amp;E funds transfered to BMDO (now Missile Defense Agency). SBIRS Low program is re-addressing its acquisition strategy as directed by the FY02 National Defense Appropriations Conference Report.</p>					<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>Total Cost</u>	(U) Previous President's Budget	238,810	0	0	493,499	(U) Appropriated Value	241,021	0			(U) Adjustments to Appropriated Value					a. Congressional/General Reductions	-1,687				b. Small Business Innovative Research	-5,265				c. Omnibus or Other Above Threshold Reprogram					d. Below Threshold Reprogram					e. Rescissions	-523				(U) Adjustments to Budget Years Since FY 2002 PBR					(U) Current Budget Submit/FY 2003 PBR	233,546	0	0	488,235
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Project 4598	Page 2 of 5 Pages	Exhibit R-2 (PE 0604442F)																																																								

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RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)								DATE February 2002				
BUDGET ACTIVITY				PE NUMBER AND TITLE				PROJECT				
<b>05 - Engineering and Manufacturing Development</b>				<b>0604442F Space Based Infrared Systems (SBIRS)</b>				<b>4598</b>				
				<b>Low</b>								
<b>(U) D. Other Program Funding Summary (\$ in Thousands)</b>												
		<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>Cost to</u>	<u>Total Cost</u>		
		<u>Actual</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Complete</u>			
(U)	PE 0604441F SBIRS High EMD (RDT&E, BA 05, R - 67)	550,144	445,229	814,927	620,348	445,606	302,997	308,136	578,800	5,769,700		
(U)	PE 0305915F - SBIRS High Procurement (MPAF, BA-5, P-30)	0	0	0	97,500	500,754	0	7,254	0	605,508		
(U)	PE 0305911F - DSP (RDT&E, BA-07, R-187)	12,779	6,142	2,090	0	0			0	1,922,717		
<b>(U) E. Acquisition Strategy</b>												
The SBIRS program is managed through a single consolidated System Program Office (SPO) at the Space and Missile Systems Center, Los Angeles Air Force Base, CA. SBIRS Low began C&TD activities in August 1999 with the award of two firm fixed price contracts. FY02 budget transferred to BMDO (now MDA).												
<b>(U) F. Schedule Profile</b>												
					<u>FY 2001</u>		<u>FY 2002</u>		<u>FY 2003</u>			
					1	2	3	4	1	2	3	4
(U)	System Design Reviews				*							
(U)	FY02 budget transferred to BMDO (now MDA)						*					
	* - Completed Event X - Planned Event											
Project 4598				Page 3 of 5 Pages				Exhibit R-2 (PE 0604442F)				

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RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)							DATE February 2002			
BUDGET ACTIVITY				PE NUMBER AND TITLE			PROJECT			
<b>05 - Engineering and Manufacturing Development</b>				<b>0604442F Space Based Infrared Systems (SBIRS)</b>			<b>4598</b>			
				<b>Low</b>						
<b>(U) A. Project Cost Breakdown (\$ in Thousands)</b>										
				<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>				
(U)	CD&D Contracts (Includes Study CLINs)			172,000	0	0				
(U)	Provided CD&D Support (Includes studies, integration into SBIRS Increment System-of-Systems and modeling and simulation)			29,016	0					
(U)	Accomplished other risk reduction activities (Includes cryocoolers, batteries, algorithms, rad hard parts, phenomenology, optical filters, MSX data reduction, contamination control, focal plane arrays (visible and long-wave), and survivability)			7,975	0					
(U)	Supported Program Office activities			24,555	0					
(U)	Total			233,546	0	0				
FY02 budget transferred to BMDO (now MDA).										
<b>(U) B. Budget Acquisition History and Planning Information (\$ in Thousands)</b>										
<b>(U) Performing Organizations:</b>										
<u>Contractor or Government Performing Activity</u>	<u>Contract Method/Type or Funding Vehicle</u>	<u>Award or Obligation Date</u>	<u>Performing Activity EAC</u>	<u>Project Office EAC</u>	<u>Total Prior to FY 2001</u>	<u>Budget FY 2001</u>	<u>Budget FY 2002</u>	<u>Budget FY 2003</u>	<u>Budget to Complete</u>	<u>Total Program</u>
<u>Product Development Organizations</u>										
TRW	C/FFP	Aug 99			97,000	86,000				183,000
Spectrum Astro	C/FFP	Aug 99			97,000	86,000				183,000
C&TD Support	Various	Various			17,645	29,016				46,661
Other Risk Reduction Act	Various	Various			22,126	7,975				30,101
FY02 budget transferred to BMDO (now MDA).										
<u>Support and Management Organizations</u>										
Program Support	Various	Various	N/A	N/A	20,918	24,555				45,473
<u>Test and Evaluation Organizations</u>										
Not Applicable										
Project 4598				Page 4 of 5 Pages			Exhibit R-3 (PE 0604442F)			

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RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)				DATE February 2002					
BUDGET ACTIVITY				PE NUMBER AND TITLE				PROJECT	
05 - Engineering and Manufacturing Development				0604442F Space Based Infrared Systems (SBIRS)				4598	
Low									
<b>(U) Government Furnished Property:</b>									
	<u>Contract</u>	<u>Award or</u>							
<u>Item</u>	<u>Method/Type</u>	<u>Obligation</u>	<u>Delivery</u>	<u>Total Prior</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget to</u>	<u>Total</u>
<u>Description</u>	<u>or Funding</u>	<u>Date</u>	<u>Date</u>	<u>to FY 2001</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>Complete</u>	<u>Program</u>
<u>Vehicle</u>									
<u>Product Development Property</u>									
Not Applicable									
<u>Support and Management Property</u>									
Not Applicable									
<u>Test and Evaluation Property</u>									
Not Applicable									
				<u>Total Prior</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget to</u>	<u>Total</u>
<u>Subtotals</u>				<u>to FY 2001</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>Complete</u>	<u>Program</u>
Subtotal Product Development				233,771	208,991				442,762
Subtotal Support and Management				20,918	24,555				45,473
Subtotal Test and Evaluation									
Total Project				254,689	233,546				488,235
FY02 budget transferred to BMDO (now MDA).									